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## Product Data Sheet

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Product Name: IL-22 Antagonist Mouse  
 Cat. No.: GP20625  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	IL-TIF; TIFa; IL-10-related T-cell-derived-inducible factor; IL-22; ILTIF; IL-D110; zcyto18; MGC79382; MGC79384; TIFIL-23.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Leu-Pro-Val-Asn.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin -22 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	IL-22Antagonist Mouseis lyophilized from a concentrated (1mg/ml) solution in water containing NaHCO <sub>3</sub> .		

### Introduction

IL-22 is a member of the IL-10 family of regulatory cytokines. Members of this family share partial homology in their amino acid sequences, but they are dissimilar in their biological functions. Produced by T lymphocytes, IL-22 inhibits IL-4 production by Th2 cells, and induces acute phase reactants in the liver and pancreas. IL-22 signals through a receptor system consisting of IL-10R-beta/CRF2-4 and IL-22R, both of which are members of the class II cytokine-receptor family.

### Biological Activity

IL-22 E117A mutant is capable of full inhibition of STAT3 phosphorylation induced by mouse interleukin 22 in HepG cells. Its affinity toward immobilized mIL-22 receptor a1 extracellular domain (mIL-22 Ra1-ECD) or IL-22 binding protein is similar to the non-mutated mouse interleukin 22. Mouse IL-22 antagonist (E117A) has very low agonistic activity in this bioassay.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Stability

Lyophilized Interleukin-22 Mouse Antagonist although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution IL22 Antagonist should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . Please prevent freeze-thaw cycles.

### Background

Interleukin-22 Antagonist Mouse Recombinant produced in E.Coli is a single, non-glycosylated homodimeric polypeptide chain containing 147 amino acids and having a total molecular mass of 16.7 KDa. The Mouse IL-22 Antagonist is purified by proprietary chromatographic techniques.

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